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1 2 3 4 5 6 7 8	RUSS AUGUST & KABAT Marc A. Fenster (CA SBN 181067) mfenster@raklaw.com Reza Mirzaie (CA SBN 246953) rmirzaie@raklaw.com Paul A. Kroeger (CA SBN 229074) pkroeger@raklaw.com Neil A. Rubin (CA SBN 250761) nrubin@raklaw.com 12424 Wilshire Boulevard, 12th Floor Los Angeles, California 90025 (310) 826-7474 - Telephone (310) 826-6991- Facsimile	PAUL HASTINGS LLP Blair M. Jacobs (admitted pro hac vice) blairjacobs@paulhastings.com Christina A. Ondrick (admitted pro hac vice) christinaondrick@paulhastings.com 875 15th Street, N.W. Washington, District of Columbia 20005 Telephone: 1(202) 551-1700 Facsimile: 1(202) 551-1705 Attorneys for Defendant Ciena Corporation	
10	Attorneys for Plaintiff Oyster Optics, LLC.		
11			
12	UNITED STATES	S DISTRICT COURT	
13	NORTHERN DISTRICT OF CALIFORNIA		
14			
15	OYSTER OPTICS, LLC,	Case No.	
16	Plaintiff,	4:17-cv-05920-JSW	
17	v.	LOCAL PATENT RULE 4-3 AMENDED, FINAL JOINT CLAIM CONSTRUCTION	
18	CIENA CORPORATION,	AND PREHEARING STATEMENT	
19	·		
20	Defendant.		
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LOCAL PATENT RULE 4-3 JOINT CLAIM CONSTRUCTION AND PREHEARING STATEMENT

Plaintiff Oyster Optics, LLC and Ciena Corporation hereby jointly provide this Amended, Final Joint Claim Construction Chart pursuant to Local Patent Rule 4-3 and Judge White's Standing Order for Patent Cases.

I. LIST OF PROPOSED CLAIM TERMS TO WHICH THE PARTIES AGREED ON A CONSTRUCTION (PATENT L.R. 4-3(a)).

The parties have agreed that a number of terms initially identified in their identification of terms for construction do not require construction, and narrowed the list of terms with disputed constructions to those reflected below. The parties have agreed on the constructions provided in the chart below:

U.S. Patent No. 8, 374,511			
"the optical signals"	"the optical signal transmitted by the transmitter"		
('511 patent – cl. 1, 9)			
"an electric signal" ('511 patent – cl. 1, 9)	"an electrical signal"		
"the electrical signal" ('511 patent- cl. 1, 9)	"an electric signal" is the antecedent basis for the term "the electrical signal"		
"filtering the electrical signal to produce an average optical power" ('511 patent – cl. 1, 9)	"filtering the electrical signal from the photodetector to provide the average optical power of the optical signals"		
"the phase-modulated optical signals" ('511 patent – cl. 9)	"the phase-modulated optical signal transmitted by the transmitter"		
U.S. Patent 1	No. 8,913,898		
"the second optical signal" ('898 patent – cl. 1, 4, 14, 18, 23)	"a second optical signal" is antecedent basis for "the second optical signal"		
"transceiver card" ('898 patent- cl. 1, 14)	"transceiver card" is "a card having a transmitter and a receiver. This term is limiting both in the preamble and in the body of the asserted claims."		
"receiver" ('898 patent – cl. 1, 14)	"receiver without a demodulator"		

II. PROPOSED CLAIM CONSTRUCTIONS BY EACH PARTY FOR THE DISPUTED CLAIM TERMS (PATENT L.R. 4-3(b)).

Pursuant to Patent L.R. 4-3(b), the Parties' proposed constructions of disputed terms are provided in the chart below along with the intrinsic and extrinsic evidence on which the parties intend to rely. ¹

intend to rely. ¹			
Claim Term/Phrase	Oyster's Proposed	Ciena's Proposed	
	Construction ²	Construction ³	
"the optical signals" ('327 patent – cl. 1, 14, 25, 36)	"the optical data signals received on the fiber input from the second optical fiber"	"transmitting optical signals" is the antecedent basis for "the optical signals,"	
	Intrinsic Evidence: 327 Patent at 4:43-49; 5:26- 54; 6:12-27; Figs. 2, 3	Otherwise Indefinite	
	Extrinsic Evidence: Petition for Inter Partes Review of Claims 1- 12, 22, and 33 of U.S. Patent No. 7,620,327 by Cisco Systems, Inc. and Oclaro, Inc., at 11, 19-22 and 27-30; Petition for Inter Partes Review of Claims 14-21, 23, 25-32, 34, and 36- 38 of U.S. Patent No. 7,620,327 by Cisco Systems, Inc. and Oclaro, Inc., at 11, 15-18 and 27-30; and any other petitions for inter partes review of the patents-in-suit that may be filed later.	Intrinsic Evidence: '327 File History: NON-FINAL OFFICE ACTION, Jan. 21, 2009 Amendment, Feb. 17, 2009 (wrongly dated Feb. 13) '327 patent at 6:51–53, 60–62; 7:33–35, 7:42–44, 8:12–14, 21–22, 8:56–58, 66–67; 9:1 '898 patent claims IPR2017-01871 Paper Nos. 7, 11 IPR2017-01882 Paper Nos. 7, 11 IPR2017-02173 Paper No. 10, 12 IPR2018-00259 Paper No. 10, 12	

¹ The '898, '327, and '511 patents share a common specification. When any of these patents is cited, it should be understood as a citation to the same disclosure in the other patents. The parties reserve the right to introduce extrinsic evidence to impeach or rebut the other expert's declarant to the extent one exists.

² In addition to the intrinsic evidence cites identified by Oyster, Oyster reserves the right to use any intrinsic evidence relied on by Ciena.

³ In addition to the evidence cited identified by Ciena, Ciena reserves the right to use any evidence relied on by Oyster.

1	Claim Term/Phrase	Oyster's Proposed Construction ²	Ciena's Proposed Construction ³
2		Construction	Extrinsic Evidence:
		Lebby Decl.	Gitlin Decl.
3			Gitlin, et al., Data
4			Communication Principles (Plenum Press 1992)
5			Oyster Optics, Inc., Securing Fiber Optic Communications
6			against Optical Tapping Methods (2002-2003)
7	"receiver"	'327 and '511 patents: "receiver"	"receiver without a
8	('327 patent – cl. 1, 14, 25, 36) ('511 patent – cl. 1, 9)	(plain meaning)	demodulator."
9		Intrinsic Evidence:	'898 File History
10		'327 Patent at Abstract; 4:39-47; 4:50-67; 5:55-6:15; 6:42-	• NON-FINAL OFFICE ACTION, June 26, 2013
11		43; Figs. 2, 3	• Amendment, Oct. 21, 2013 (improperly dated
12		Extrinsic Evidence:	Feb. 5, 2013) • NON-FINAL OFFICE
13		Fiber Optics Standard Dictionary, Third Ed.	NON-FINAL OFFICE ACTION, Dec. 31, 2013
		(1997) at 840 ("receiver	• Amendment, April 15,
14		The portion of a	2014
15		communications system in which radio,	• FINAL OFFICE ACTION, June 18,
16		optical, electronic, or sound	2014Amendment, Aug.
17		signals are (a) converted into visible images	15, 2014
18		or audible sounds or (b) accepted,	
19		processed, and	
20		furnished to another portion of the system.")	
21		Petition for Inter Partes Review of Claims 1-	
22		13, 15-23, and 27 of U.S.	
23		Patent No. 6,594,055 by Cisco Systems,	
24		Inc. and Oclaro,	
		Inc., at 23; Petition for Inter Partes	
25		Review of Claims 1-	
26		12, and 23 of U.S. Patent No. 8,913,898 by	
27		Cisco Systems, Inc. and Oclaro, Inc., at 6-20; Petition	
28		3	

1	Claim Term/Phrase	Oyster's Proposed Construction ²	Ciena's Proposed Construction ³
$_{2}\Vert$		for Inter Partes Review of	Constituction
		Claims 1-	
3		12, 22, and 33 of U.S. Patent No. 7,620,327	
4		by Cisco Systems, Inc. and	
5		Oclaro, Inc., at 6-	
		22;	
6		Petition for Inter Partes Review of Claims 1-	
7		7 and 9-15 of U.S. Patent No.	
		8,374,511 by	
8		Cisco Systems, Inc. and	
9		Oclaro, Inc., at 5-16; Petition for Inter Partes	
10		Review of Claims	
		14-22, and 24 of U.S. Patent	
11		No. 8,913,898	
12		by Cisco Systems, Inc. and Oclaro, Inc., at 6-	
13		20; and	
13		Petition for Inter Partes	
14		Review of Claims	
15		14-21, 23, 25-32, 34, and 36-38 of U.S.	
		Patent No. 7,620,327 by	
16		Cisco Systems, Inc.	
17		and Oclaro, Inc., at 15-18;	
18		and any other petitions for inter partes	
		review of the patents-in-suit	
19		that may be filed	
$20 \ $		later.	
21		Lebby Decl.	
	"energy level detector including	"energy level detector"	"a single energy level
22	a threshold" / "energy level detector includes a plurality of	construed as "device to measure optical power"	detector on a transceiver card
23	thresholds" / "energy level	opuoui ponoi	and including a reference voltage for comparison to the
	detector including a threshold" ('327 patent – cl 1, 14, 25)	Intrinsic Evidence:	energy level of [the optical
24	('898 patent - cl. 1, 14)	'327 Patent: Abstract; 2:59-3:55; 4:39-47;	signals / the second optical
25		4:50-67; 5:6-6:27; 6:42-43;	signal]" / "a single energy level
26		Figs. 2, 3	"a single energy level detector on a transceiver card
			and including reference
27		Extrinsic Evidence:	voltages for comparison to
28		<u>.</u>	the energy level of [the
- 11		$\boldsymbol{4}$	

1	Claim Term/Phrase	Oyster's Proposed	Ciena's Proposed
2		Construction ² Petition for Inter Partes	Construction ³ optical signals / the second
		Review of Claims 1-	optical signal]" /
3		20 of U.S. Patent No.	
4		6,469,816 by Cisco Systems, Inc. and Oclaro,	Intrinsic Evidence: '327 patent at 5:20-25, 5:55-
_		Inc., at 63-64 and	6:27, Fig. 3
5		72;	IPR2017-02173 Paper No.
6		Petition for Inter Partes	10, 12
7		Review of Claims 1-12, and 23 of U.S. Patent No.	IPR2018-00259 Paper No. 10, 12
		8,913,898 by Cisco Systems,	IPR2018-00070 Paper No.
8		Inc. and Oclaro, Inc., at 5-16;	12, 14, 26, 46, 53, 54
9		Petition for Inter Partes Pavious of Claims 1, 12, 22	IPR2018-00257 Paper No.
10		Review of Claims 1-12, 22, and 33 of U.S. Patent No.	12, 14 IPR2017-01871 Paper Nos. 7,
		7,620,327 by Cisco Systems,	11
11		Inc. and Oclaro, Inc., at 3-4,	IPR2017-01882 Paper Nos. 7,
12		6-7, 8-12 and 15-17; Petition for Inter Partes Review of	11 IPR2017-01870 Paper Nos. 8,
13		Claims 14-22, and 24 of U.S.	12IPR2017-01881 Paper Nos.
		Patent No. 8,913,898 by	7, 11, 16, 23, 27, 29
14		Cisco Systems, Inc. and	
15		Oclaro, Inc., at 7-15; and Petition for Inter Partes	
		Review of Claims 14-21, 23,	
16		25-32, 34, and 36-38 of U.S.	
17		Patent No. 7,620,327 by Cisco Systems, Inc. and	
18		Oclaro, Inc., at 6-7 and 12;	
		and any other petitions for	
19		inter partes review of the	
20		patents-in-suit that may be filed later.	
21		med later.	
		Lebby Decl.	
22	"phase modulate" / "phase modulator"	"alter the phase of light to create an optical signal having a phase	"alter the phase of light while keeping the amplitude of the
23	('327 patent – cl. 3, 16, 27, 37)	that is representative of data. Use	light constant to create an
24	('511 patent – cl. 9) ('898 patent – cl. 3, 17)	of phase modulation excludes use of amplitude modulation."	optical signal having a phase
	(3.0 parent 22.0, 17)	use of ampirtude modulation.	that is representative of data"
25		Intrinsic Evidence:	Intrinsic Evidence:
26		'327 Patent: Abstract; 1:25-	'327 patent at 1:18-23, 1:45-
27		30; 2:25-47; 4:64-67; Fig. 2	46, 4:30-33, 4:39-47, Fig. 2
28		5	

Extrinsic Evidence; Fiber Optics Standard Dictionary, Third Ed. (1997) at 742 ("phase modulation: Angle modulation: Angle modulation in which the phase angle of a carrier, such as an electronic, radio, or optical carrier, is caused to depart from its reference value by an amount proportional to the instantaneous value of the modulating signal"; "optical phase modulator: An optical device that controls or varies the phase of a lightwave relative to a fixed reference or relative to a fixed reference with an information-bearing signal.") The Authoritative Dictionary of IEEE Standards Terms, Seventh Ed. (2000) at 816 ("phase modulation (1) (data transmission) Angle modulation in which the angle of a carrier is caused to depart from its reference value by an amount proportional to the instantaneous value of the modulating function"). Petition for Inter Partes Review of Claims 1-12 and 27-28; Petition for Inter Partes Review of Claims 1-13, and 27 of U.S. Patent No. 6,594,055 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No. 6,240,816 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No. 6,240,816 by Cisco Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.	1	Claim Term/Phrase	Oyster's Proposed Construction ²	Ciena's Proposed Construction ³
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("phase modulation: Angle modulation in which the phase angle of a carrier, such as an electronic, radio, or optical carrier, is caused to depart from its reference value by an amount proportional to the instantaneous value of the modulating signal"; "optical phase modulator: An optical device that controls or varies the phase of a lightwave relative to a fixed reference or relative to another lightwave in accordance with an information-bearing signal.") The Authoritative Dictionary of IEEE Standards Terms, Seventh Ed. (2000) at 816 ("phase modulation in which the angle of a carrier is caused to depart from its reference value by an amount proportional to the instantaneous value of the modulating function"). Petition for Inter Partes Review of Claims 1-13, and 27 of U.S. Patent No. 6,594,055 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17 and 27-28; Petition for Inter Partes Review of Claims 1-13, and 27 of U.S. Patent No. 6,594,055 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.			_	
modulation in which the phase angle of a carrier; such as an electronic, radio, or optical carrier, is caused to depart from its reference value by an amount proportional to the instantaneous value of the modulating signal"; "optical phase modulator: An optical device that controls or varies the phase of a lightwave relative to a fixed reference or relative to a nother lightwave in accordance with an information-bearing signal.") The Authoritative Dictionary of IEEE Standards Terms, Seventh Ed. (2000) at 816 ("phase modulation (1) (data transmission) Angle modulation in which the angle of a carrier is caused to depart from its reference value by an amount proportional to the instantaneous value of the modulating function"). Petition for Inter Partes Review of Claims 1-20 of U.S. Patent No. 6,469,816 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17 and 27-28; Petition for Inter Partes Review of Claims 1-13, and 27 of U.S. Patent No. 6,594,055 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.	3		` /	
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as an electronic, radio, or optical carrier, is caused to depart from its reference value by an amount proportional to the instantaneous value of the modulating signal."; "optical phase modulator: An optical device that controls or varies the phase of a lightwave relative to a fixed reference or relative to another lightwave in accordance with an information-bearing signal.") The Authoritative Dictionary of IEEE Standards Terms, Seventh Ed. (2000) at 816 ("phase modulation (1) (data transmission) Angle modulation in which the angle of a carrier is caused to depart from its reference value by an amount proportional to the instantaneous value of the modulating function"). Petition for Inter Partes Review of Claims 1-20 of U.S. Patent No. 6,469,816 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.	5			'327 File History:
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15 816 ("phase modulation (1) (data transmission) Angle modulation in which the angle of a carrier is caused to depart from its reference value by an amount proportional to the instantaneous value of the modulating function"). Petition for Inter Partes Review of Claims 1- 20 of U.S. Patent No. 6,469,816 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17 and 27-28; Petition for Inter Partes Review of Claims 1- 13, and 27 of U.S. Patent No. 6,594,055 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.	14		•	
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Oclaro, Inc., at 4-7, 10-17 and 27-28; Petition for Inter Partes Review of Claims 1- 13, and 27 of U.S. Patent No. 6,594,055 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.	21			Amendment, Feb. 5, 2013
and 27-28; Petition for Inter Partes Review of Claims 1- 13, and 27 of U.S. Patent No. 6,594,055 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.	22		<u> </u>	
Partes Review of Claims 1- 13, and 27 of U.S. Patent No. 6,594,055 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.	23			Gitlin Decl.
25 6,594,055 by Cisco Systems, Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.			*	
Inc. and Oclaro, Inc., at 4-7, 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.	24		13, and 27 of U.S. Patent No.	
26 10-17, 25-26, and 36-38; Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.	25			
Petition for Inter Partes Review of Claims 1-12, and 23 of U.S. Patent No.	26			
28 23 of U.S. Patent No.				
20	27			
	28		23 of U.S. Patent No.	

1	Claim Term/Phrase	Oyster's Proposed Construction ²	Ciena's Proposed Construction ³
$2 \parallel$		8,913,898 by Cisco Systems,	0 011342 11041011
		Inc. and Oclaro, Inc., at 21-24	
3		and 48-55; Petition for Inter Partes Review of Claims 1-7	
4		and 9-15 of U.S. Patent No.	
5		8,374,511 by Cisco Systems,	
3		Inc. and Oclaro, Inc., at 16-	
6		18 and 52-56; Petition for	
7		Inter Partes Review of Claims 14-22, and 24 of U.S. Patent	
·		No. 8,913,898 by Cisco	
8		Systems, Inc. and Oclaro,	
9		Inc., at 20-23 and 50-51; and	
		any other petitions for inter	
10		partes review of the patents- in-suit that may be filed later.	
11		m-suit that may be med later.	
12		Lebby Decl.	
12	"receiver configured to	"receiver" is a "receiver without	"a receiver that converts the
13	convert the second optical signal to output data"	a demodulator" as set forth above. Otherwise, plain and	second optical signal from
14	('898 patent – cl. 1, 14)	ordinary meaning.	optical to electronic form to recover the data carried by
14		, ,	the second optical signal"
15		Intrinsic Evidence:	
16		327 Patent at Abstract; 4:39-47; 4:50-67; 5:55-6:15; 6:42-	Intrinsic Evidence:
		43; Figs. 2, 3	'898 patent at 1:42-51, 2:30-34, 4:11-21, 4:55-61, 5:2-5,
17		, 6	Figure 2.
18		Extrinsic Evidence:	'898 patent file history:
		Fiber Optics Standard	 NON-FINAL
19		Dictionary, Third Ed. (1997) at 840 ("receiver The	OFFICE ACTION, June 26,
20		portion of a communications	2013 • Amendment, Oct. 21,
21		system in which radio,	2013
		optical, electronic, or sound	 NON-FINAL
22		signals are (a) converted into visible images or audible	OFFICE ACTION, Dec. 31,
23		sounds or (b) accepted,	2013
		processed, and furnished to	• Amendment, April 15, 2014
24		another portion of the	• FINAL OFFICE
25		system.") Petition for Inter	ACTION, June 18, 2014
		Partes Review of Claims 1-13, 15-23, and 27 of U.S.	• Amendment, Aug. 15,
26		Patent No. 6,594,055 by	2014 IPR2018-00070 Paper No.
27		Cisco Systems, Inc. and	12, 14, 26, 46, 53, 54
		Oclaro, Inc., at 23; Petition	,, -0, 10, 00, 01
28		7	

1	Claim Term/Phrase	Oyster's Proposed	Ciena's Proposed
		Construction ²	Construction ³
2		for Inter Partes Review of	IPR2018-00257 Paper No 12,
3		Claims 1- 12, and 23 of U.S. Patent No. 8,913,898 by	14 IPR2017-01870 Paper Nos. 8,
		Cisco Systems, Inc. and	12
4		Oclaro, Inc., at 6-20; Petition	IPR2017-01881 Paper Nos. 7,
5		for Inter Partes Review of	11, 16, 23, 27, 29
		Claims 1- 12, 22, and 33 of U.S. Patent No. 7,620,327 by	
6		Cisco Systems, Inc. and	
7		Oclaro, Inc., at 6-22;	
8		Petition for Inter Partes	
		Review of Claims 1-7 and 9-	
9		15 of U.S. Patent No. 8,374,511 by Cisco Systems,	
10		Inc. and Oclaro, Inc., at 5-16;	
		Petition for Inter Partes	
11		Review of Claims 14-22, and	
12		24 of U.S. Patent No. 8,913,898 by Cisco Systems,	
13		Inc. and Oclaro, Inc., at 6-20;	
		and Petition for Inter Partes	
14		Review of Claims 14-21, 23,	
15		25-32, 34, and 36-38 of U.S. Patent No. 7,620,327 by	
		Cisco Systems, Inc. and	
16		Oclaro, Inc., at 15-18; and	
17		any other petitions for inter	
18		partes review of the patents- in-suit that may be filed later.	
		in suit that may se med fater.	
19		Lebby Decl.	
20	"a transmitter having a laser, a modulator, and a controller"	Plain and ordinary meaning	"A transmitter having a laser,
	('327 patent – cl. 1, 14, 25, 36)	Intrinsic Record:	a modulator, and a controller located within the
21	('898 patent – cl. 1, 14)	'327 Patent at Abstract, 1:15-	transmitter."
22		30, 1:40-44, 3:4-15 '327	
23		patent – cl 1, 14, 25, 36 '898	Intrinsic Evidence:
		patent – cl 1, 13	'327 patent at 1:18-20, 4:27-36, 6:31-37, 7:27-31, 8:6-10,
24			8:51-55, Figure 2
25			'327 Patent File History:
26			NON-FINAL OFFICE ACTION for 21
			OFFICE ACTION, Jan. 21, 2009
27			2007

Claim Term/Phrase	Oyster's Proposed	Ciena's Proposed
	Construction ²	Construction ³
		• Amendment, Feb. 17,
		2009 (wrongly dated Feb. 13,
		2009)
		 FINAL OFFICE
		ACTION, May 11, 2009
		• Amendment, May 26,
		2009
		IPR2018-00070 Paper Nos.
		12, 14, 26, 46, 53, 54.
		IPR2017-02173 Paper No.
		10, 12
		IPR2018-00259 Paper No.
		10, 12
		IPR2018-00257 Paper No.
		12, 14
		IPR2017-01870 Paper Nos. 8,
		12
		IPR2017-01881 Paper Nos. 7,
		11, 16, 23, 27, 29
		IPR2017-01871 Paper Nos. 7,
		11 IPD 2017 01002 P N 7
		IPR2017-01882 Paper Nos. 7, 11
"The plurality of thresholds"	Oyster has withdrawn its asser	tion of claims 22 and 33 of the
('327 patent – cl. 22, 33)	'327 patent and claim 23 of the	'898 patent. Accordingly, this
('898 patent – cl. 23)	phrase no longer needs to be co	nstrued.

III. IDENTIFICATION OF THE TERMS WHOSE CONSTRUCTION WILL BE MOST SIGNIFICANT TO THE RESOLUTION OF THE CASE (PATENT L.R. 4-3(c))

The Parties have consolidated their jointly proposed terms for construction to fewer than ten disputed terms. The parties' position as to the importance of the terms is set forth in the chart below.

Claim Term/Phrase	Oyster's position as to whether this term is case or claim dispositive	Ciena's position as to whether this term is case or claim dispositive
"the optical signals" ('327 patent – cl. 1, 14, 25, 36)	Case dispositive as it relates to the '327 patent	Case dispositive as it relates to the '327 patent
"receiver" ('327 patent – cl. 1, 14, 25, 36) ('511 patent – cl. 1, 9)	Not case or claim dispositive	Case dispositive

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1	Claim Term/Phrase	Oyster's position as to whether this term is case or	Ciena's position as to whether this term is case or
2		claim dispositive	claim dispositive
3	"energy level detector including a threshold" / "energy level	Not case or claim dispositive	Case dispositive as it relates
4	detector includes a plurality of thresholds" / "energy level		to the '898 patent
5	detector including a threshold" ('327 patent – cl 1, 14, 25)		
6	('898 patent – cl. 1, 14)		
7	"phase modulate" / "phase modulator"	Not case or claim dispositive	Claim dispositive
8	('327 patent – cl. 3, 16, 27, 37) ('511 patent – cl. 9)		
9	('898 patent – cl. 3, 17) "receiver configured to	Not case or claim dispositive	Case dispositive as it relates
10	convert the second optical signal to output data" ('898 patent – cl. 1, 14)		to the '898 patent
11	"a transmitter having a laser, a	Not case or claim dispositive	Case dispositive as it relates
12	modulator, and a controller" ('327 patent – cl. 1, 14, 25, 36)		to the '327 and '898 patents
13	('898 patent – cl. 1, 14)	I ENGTH OF TIME VEEDE	

IV. ANTICIPATED LENGTH OF TIME NEEDED FOR THE CLAIM CONSTRUCTION HEARING (PATENT L.R. 4-3(d)).

Pursuant to Pat. L.R. 4-3(d), the parties anticipate that the hearing will take no longer than three hours.

V. PROPOSED WITNESSES TO BE USED AT THE CLAIM CONSTRUCTION HEARING (PATENT L.R. 4-3(e)).

The parties do not currently anticipate calling any witnesses at this time.

VI. IDENTIFICATION OF FACTUAL FINDINGS REQUEST FROM THE COURT.

Ciena requests the following factual findings:

• A POSITA would have understood that the '327 and '898 patents teach that the "phase modulate/phase modulator" terms mean "altering the phase of light while keeping the amplitude of the light constant to create an optical signal having a phase that is representative of the data." Gitlin Decl. at 9:16-10:22.

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	•	In all embodiments of the '327 patent, a POSITA would have understood that "the optical
		signals," as claimed, refers to the claimed "transmitting optical signals." And, absent referring to
		transmitted optical signals, a POSITA would not know what "the optical signals" refers to in the
		'327 patent's claims. <i>Id.</i> at 10:23-12:21.
	•	A POSITA would not have understood what "the plurality of thresholds" refers to in claims 22 and

- A POSITA would not have understood what "the plurality of thresholds" refers to in claims 22 and 33 of the '327 patent and claim 23 of the '898 patent *Id.* at 12:21-14:2
- Ciena expressly opposes Oyster's requested factual findings and reserves the right to provide rebuttal expert testimony in the form of live testimony, declaration, deposition, or any other form acceptable to the Court.

Oyster requests the following factual findings:

With respect to the claim phrase "the optical signals":

- In all embodiments of '327, including in particular Figures 2 and 3 and their corresponding specification descriptions, a POSITA would understand that the patent teaches that the transceiver is not receiving the same signal it is sending out. There is no connection drawn, nor there is any description of the transmitter optical signal going elsewhere other than out of the transceiver to a receiver in the optical network. Lebby Decl. ¶ 80.
- The '327 patent teaches that the received signal comes from another transceiver in the optical network. Lebby Decl. ¶ 80.
- One skilled in the art would understand that "the optical signals" in the claims are not exactly
 the same "optical signals" that are transmitted by the transmitter on the transceiver card. Lebby
 Decl. ¶ 84.
- Anyone skilled in the art would understand that there are—and must be—"optical signals" that are received over the second optical fiber and that have been transmitted by another device at the other end of that second optical fiber, outside of the transceiver card. Lebby Decl. ¶ 84.
- Any interpretation of the claims of the '327 patent that requires that the output of the transmitter in any transceiver to be fed into the receiver of the same transceiver would exclude or read out each and every embodiment taught or described in the patent. Lebby Decl. ¶ 90.

,	The patentee amended claims so as to recite "transmitting optical signals" as well as to recite
	that the energy level detector is "to measure an energy level of the optical signals," and the
	patentee stated: Without prejudice to a continuation application, applicants have amended the
	claims to recite "a transmitter for transmitting data over the first optical fiber, the transmitter
	having a laser, and a modulator, and a controller receiving input data and controlling the
	modulator as a function of the input data, the transmitter transmitting optical signals for
	telecommunication as a function of the input data" and "an energy level detector" to measure ar
	energy level of the transmitted optical signals. A reasonable reading of this passage in the
	context of the claim language, is that "the transmitted optical signals" are the signals being
	received by the receiver (having been transmitted elsewhere), not the signals being transmitted
	by the recited transmitter. Case 2:16-cy-1302 Order dated December 5, 2017 at 40.

With respect to the claim phrase "receiver":

• One skilled in the art will recognize that the precise components that make up a receiver will differ, depending upon the types of modulation that are used and upon the choices made by the designer of the receiver. Lebby Decl. ¶ 37.

With respect to the phrase "energy level detector including a threshold" / "energy level detector includes a plurality of thresholds" / "energy level detector including a threshold":

• Each patent teaches that an exemplary energy level detector in Figure 3 has "a preferred analog implementation, with other implementation circuits possible." Lebby Decl. ¶ 35.

With respect to the term "phase modulate" / "phase modulator":

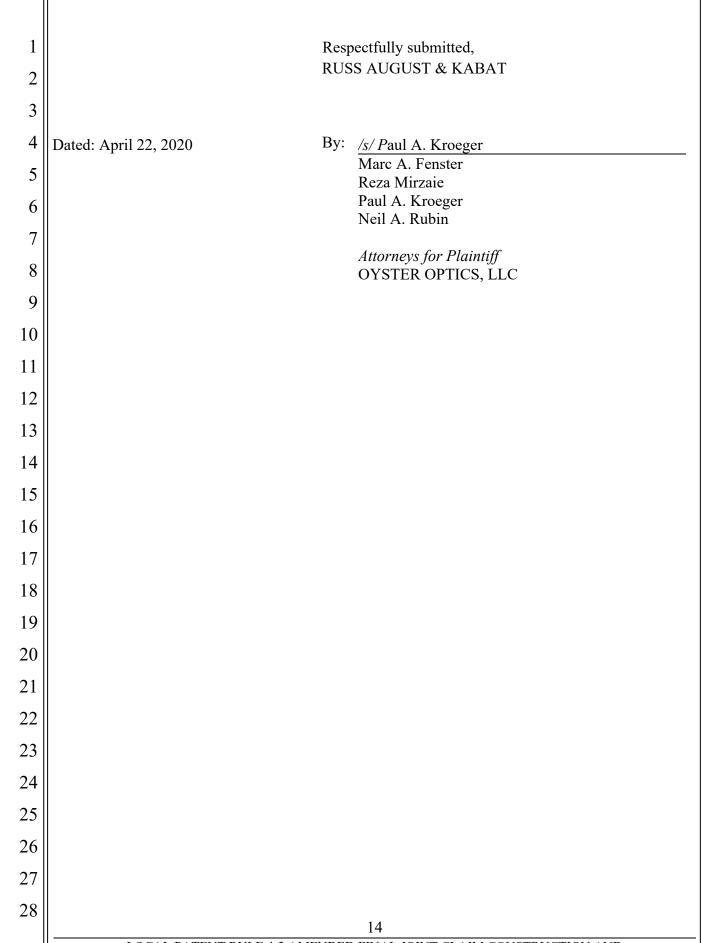
- Amplitude modulation is something more than merely altering amplitude. Case No. 2:16-cv-1302, Order dated June 21, 2018.
- "Modulation of a wave' refers to changing a wave in order to represent data." Case No. 2:16-cv-1302, Order dated June 21, 2018.

1	•	Modulation is the process of encoding the data that is to be communicated in the light wave, by
2		changing one or more of the characteristics of the light wave as a representation of the data.
3		Lebby Decl. p 24.
4	•	"Amplitude modulation (amplitude-shift keying (ASK)) works by modulating the amplitude of

- "Amplitude modulation (amplitude-shift keying (ASK)) works by modulating the amplitude of the wave depending on the binary electrical data signal. With amplitude modulation, the power of the signal can jump between, e.g., 100% (maximum light) and 0% (no light) depending on the bit being transmitted."). Case No. 2:16-cv-1302, Order dated June 21, 2018.
- As a matter of basic physics and as one skilled in the art would recognize, if the power of a light wave alters, so does its amplitude. Lebby Decl. ¶ 29.

The asserted patents refer to a "phase-modulated mode," where "the amplitude of the optical signal is constant," i.e. where phase modulation and only phase modulation is used, but in the same paragraph these patents also expressly state that other forms of modulation can be used. ('898 patent col. 4.) The asserted patents expressly contemplate that the amplitude as well as the phase of the optical signal can be modified. For example, Figure 2 of the '327, '511, and '898 patents each show a controller 18 that is connected to a laser 12 and "modulator" or "phase modulator" 16. The controller controls the modulator and also controls the power output of the laser. Lebby Decl. ¶ 29.

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Attestation of Concurrence

I hereby attest that concurrence in the filing of the document has been obtained from each of the other signatories, which shall serve in lieu of their signatures on the document.

> /s/ Paul A. Kroeger Paul A. Kroeger

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